

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Jong-hyun LEE

Application No.: To be assigned

Group Art Unit: Unassigned

Filed: August 22, 2003

Examiner: Unassigned

For: METHOD AND APPARATUS TO ENHANCE DIGITAL IMAGE QUALITY

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Alexandria, Virginia 22313

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:

- 1a. Form PTO-1449.
- 1b. Copies of IDS citations.
- 1c. An English language copy of search report(s) from a counterpart foreign application or a PCT International Search Report.
- 1d. English language translation (abstracts only) attached to each non-English language publication.
- 1e. Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of each non-English publication.
- 1f. List of Copending Applications (ATTACHMENT 1(f), hereto).
- 1g. List of Additional Submitted Documents (ATTACHMENT 1(g), hereto).

2. This Information Disclosure Statement is filed under 37 CFR §1.97(b):

(Check either Item 2a or 2b or 2c or 2d)

- 2a. Within three months of the filing date of a national application other than a Continued Prosecution Application under § 1.53(d);
- 2b. Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application.
- 2c. Before the mailing of a first Office Action on the merits; or
- 2d. Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114.

3. This Information Disclosure Statement is filed under 37 CFR §1.97(c) after the period specified in paragraph 2 above but before the mailing date of any of a Final Office Action under § 1.113, a Notice of Allowance under § 1.311 or an action that otherwise closes prosecution in the application, AND

(Check either Item 3a or 3b; Item 3b to be checked if any reference known for more than 3 months)

3a. The §1.97(e) Statement in Item 5 below is applicable; OR
 3b. The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:
 enclosed.
 to be charged to Deposit Account No. .

4. This Information Disclosure Statement is filed under 37 CFR §1.97(d) after the period specified in paragraph 3 above, but on or before payment of the Issue Fee, AND

4a. The §1.97(e) Statement in Item 5 below is applicable; AND
 4b. The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:
 enclosed.
 to be charged to Deposit Account No. not yet assigned.

5. Statement under §1.97(e) (*applicable if Item 3a or Item 4 is checked*)

(Check either Item 5a or 5b)

5a. In accordance with 37 CFR §1.97(e)(1), it is stated that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
 5b. In accordance with 37 CFR §1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in '1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

6. This is a continuation/divisional/continuation-in-part application under 37 CFR §1.53(b).

(Check appropriate Items 6a and/or 6b)

6a. Copies of the publications listed on the attached Form PTO-1449 which were previously cited in prior application Serial No. ___, filed on ___, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. §120, have been omitted pursuant to 37 CFR § 1.98(d).
 6b. Copies of the publications listed on the attached Form PTO-1449 which were not previously cited in prior application Serial No. ___, filed on ___, and

which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. ' 120, are provided herewith.

7. This is a continuation/divisional application under 37 CFR ' 1.53(d) or Request for Continued Examination under 37 CFR 1.114.

(Check either Item 7a or 7b)

7a. The Issue Fee has not been paid.

7b. A Petition to Withdraw from issue under 37 CFR ' 1.313(c) is filed concurrently herewith or has been granted. A continuation application under 37 CFR ' 1.53(d) or Request for Continued Examination under 37 CFR 1.114, after payment of the Issue Fee is proper in accordance with 37 CFR ' 1.53(d)(1)(ii) or 37 CFR 1.114(a), respectively.

8. This is a Supplemental Information Disclosure Statement.

(Check either Item 8a or 8b)

8a. This Supplemental Information Disclosure Statement under 37 CFR ' 1.97(f) supplements the Information Disclosure Statement filed on ___. A bona fide attempt was made to comply with 37 CFR ' 1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS can be considered as if properly filed on ___.

8b. This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR ' 1.97 and 1.98, mailed ___.
(MPEP 609 C(1), Form & 6.49, Rev. 1, Feb. 2000, pp. 600-107)

9. In accordance with 37 CFR §1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:

(Check appropriate Items 9a, 9b, 9c and/or 9d)

9a. satisfied because all non-English language publications were cited on the enclosed English language copy of the PCT International Search Report or the search report from a counterpart foreign application indicating the degree of relevance found by the foreign office. (See U.S. Patent & Trademark Office's authorization in the Federal Register, Vol. 57, No. 12, January 17, 1992, at page 2031 (Reply to Comment 68).)

9b. set forth in the application.

9c. satisfied because an English language translation (complete or relevant portion(s)) is attached to each non-English language publication.

9d. enclosed as Attachment 1(e), hereto.

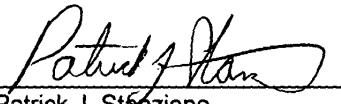
10. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§1.97(g) and (h).

11. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR §1.17 for this Information Disclosure Statement and/or Petition to Deposit Account No. (not yet assigned).

Respectfully submitted,

STANZIONE & KIM, LLP

Dated: August 22, 2003
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	n/a
				Filing Date	August 22, 2003
				First Named Inventor	Jong-hyun LEE
				Art Unit	
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	101-1001

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
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***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.